

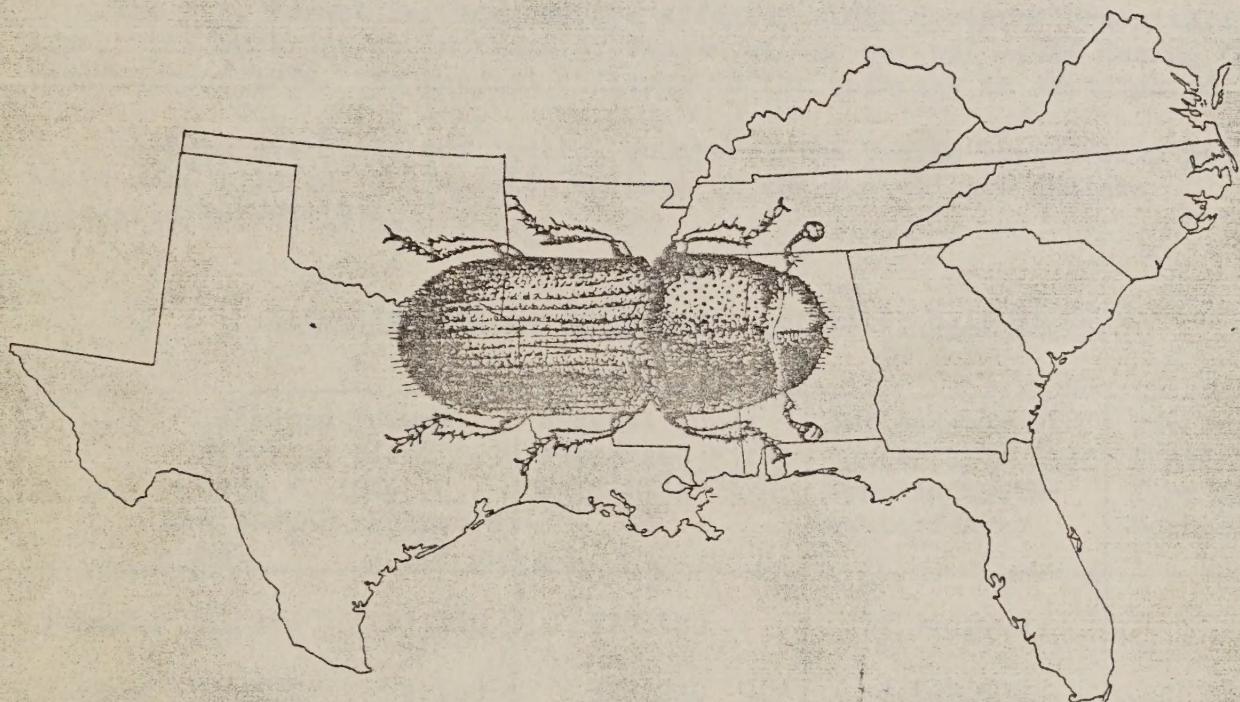
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SB 608
P65S6

SOUTHERN PINE BEETLE OUTBREAK STATUS

January 1974



Compiled By
U. S. Forest Service
SOUTHEASTERN AREA
State and Private Forestry
Atlanta, Georgia

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SOUTHERN PINE BEETLE OUTBREAK - 1974

Status Summary

The Southern Pine Beetle outbreak in the southern United States has increased in area and intensity during the first half of FY 1974.

The outbreak area now involves 58 percent of the 85.2 million acres of susceptible pine forests in the South.

The U.S. Forest Service and the affected state forestry organizations expect the outbreak to increase or remain at the current level during the remainder of 1974. No general collapse in the outbreak is anticipated.

Cooperative State and Federal southern pine beetle suppression projects were allotted 1.2 million dollars of the 2.4 million dollars requested for FY 1974.

Situation and Accomplishment for First Half FY 74

Infested Volume Salvaged First Half FY 1974 Saw Timber Pulpwood MBF MCF		Federal Funds Dispersed First Half FY 1974	Net Acreage of Susceptible Host Type in South- eastern Area	Net Acreage of Susceptible Host Type in Current Outbreak
Private	63,346	27,116	925,980	77,340,400
Federal	19,537	1,563	328,230	7,842,800
Total	82,883	28,679	1,254,210	85,183,200
				49,826,883

Anticipated Second Half FY 1974 Accomplishments

Anticipated Infested Timber to be Salvaged 2nd Half FY 1974 Saw Timber Pulpwood MBF MCF		Funds Requested for Second Half FY 1974 (as of 1 Jan. 74)
Private	100,229	\$ 866,169
Federal	20,709	312,124
Total	120,938	\$1,178,293

States with Cooperative Suppression Projects - 9

Alabama	Louisiana	South Carolina
Arkansas	Mississippi	Texas
Georgia	North Carolina	Virginia

Federal Administrative Units with Suppression Projects

National Forests in North Carolina
Chattahoochee-Oconee National Forests, Georgia
Jefferson National Forest, Virginia
National Forests in Texas
Francis Marion and Sumter National Forests, South Carolina
Kisatchie National Forest, Louisiana
National Forests in Alabama
National Forests in Mississippi
Cherokee National Forest, Tennessee
Oak Ridge National Lab, Atomic Energy Commission, Tennessee

Timber Resource Susceptible to Attack

Over 85 million acres of commercial forest in the South are in pine types susceptible to southern pine beetle attack. Public ownership accounts for 7.8 million acres while 77.3 million acres are in private ownership.

Approximately 55 billion cubic feet of pine growing stock in the 13-state Southeastern Area are in susceptible host types. The volumes in pure-loblolly and shortleaf pine stands are 19.4 and 11.4 billion cubic feet, respectively. An additional 16.3 billion cubic feet are in mixed loblolly-shortleaf stands. The total volume of loblolly-shortleaf growing stock, 47 billion cubic feet, is 85 percent of the total susceptible pine growing stock in the South. Forest Survey also reports that the sawtimber portion of the growing stock totals 195.6 billion board feet. Of this pine sawtimber resource, 172.4 billion board feet or 88 percent of the total is loblolly and shortleaf pine.

Additional information may be found in the Appendix, Tables 1-4 and Figures 1 and 2.

A P P E N D I X

TABLE 1.

Area of Susceptible Host Types in the Southeast by Ownership Class.¹

State	Ownership	Forest Types						Virginia	Pond	Oak Pine	Pitch	Shortleaf	Loblolly	Shortleaf	Loblolly	Shortleaf	Loblolly	Southern Pine	Southern Pine	Table Mtn.	Longleaf	Table Mtn.	Longleaf	Slash	Total					
		Private	Public	Total	Private	Public	Total									Private	Public	Total	Private	Public	Total	Private	Public	Total	Private	Public	Total			
Alabama	Private	--	--	7,132.3	--	--	4,614.5	--	--	--	--	--	--	--	--	1,854.4	1,3,601.2	1,998.7	1,998.7	1,998.7	1,998.7	1,998.7	1,998.7	1,998.7	1,998.7	1,998.7	1,998.7	1,998.7	1,998.7	1,998.7
	Public	--	--	305.5	--	--	220.4	--	--	--	--	--	--	--	--	144.3	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
	Total	--	--	7,437.8	--	--	4,934.9	--	--	--	--	--	--	--	--	1,998.7	14,271.4	14,271.4	14,271.4	14,271.4	14,271.4	14,271.4	14,271.4	14,271.4	14,271.4	14,271.4	14,271.4	14,271.4	14,271.4	14,271.4
Arkansas	Private	--	--	2,982.5	--	--	2,466.6	--	--	--	--	--	--	--	--	5,449.1	5,449.1	5,449.1	5,449.1	5,449.1	5,449.1	5,449.1	5,449.1	5,449.1	5,449.1	5,449.1	5,449.1	5,449.1	5,449.1	5,449.1
	Public	--	--	685.5	--	--	573.0	--	--	--	--	--	--	--	--	1,258.5	1,258.5	1,258.5	1,258.5	1,258.5	1,258.5	1,258.5	1,258.5	1,258.5	1,258.5	1,258.5	1,258.5	1,258.5	1,258.5	1,258.5
	Total	--	--	3,668.0	--	--	3,039.6	--	--	--	--	--	--	--	--	6,076.6	6,076.6	6,076.6	6,076.6	6,076.6	6,076.6	6,076.6	6,076.6	6,076.6	6,076.6	6,076.6	6,076.6	6,076.6	6,076.6	6,076.6
Florida	Private	339.9	34.5	--	--	--	1,365.0	261.8	--	--	--	--	--	--	--	2,001.2	2,001.2	2,001.2	2,001.2	2,001.2	2,001.2	2,001.2	2,001.2	2,001.2	2,001.2	2,001.2	2,001.2	2,001.2	2,001.2	2,001.2
	Public	4,818.4	1,637.9	--	--	--	3,350.7	285.0	--	--	--	--	--	--	--	10,357.0	10,357.0	10,357.0	10,357.0	10,357.0	10,357.0	10,357.0	10,357.0	10,357.0	10,357.0	10,357.0	10,357.0	10,357.0	10,357.0	10,357.0
	Total	5,374.7	1,735.3	--	--	--	289.2	19.5	--	--	--	--	--	--	--	697.8	697.8	697.8	697.8	697.8	697.8	697.8	697.8	697.8	697.8	697.8	697.8	697.8	697.8	697.8
Kentucky	Private	--	--	--	--	--	326.2	443.5	--	--	--	--	--	--	--	11,054.8	11,054.8	11,054.8	11,054.8	11,054.8	11,054.8	11,054.8	11,054.8	11,054.8	11,054.8	11,054.8	11,054.8	11,054.8	11,054.8	11,054.8
	Public	--	--	--	--	--	41.5	113.9	--	--	--	--	--	--	--	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4	155.4
	Total	--	--	--	--	--	367.7	557.4	--	--	--	--	--	--	--	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1
Louisiana	Private	--	--	4,161.4	--	--	2,034.4	--	--	--	--	--	--	--	--	7,264.4	7,264.4	7,264.4	7,264.4	7,264.4	7,264.4	7,264.4	7,264.4	7,264.4	7,264.4	7,264.4	7,264.4	7,264.4	7,264.4	7,264.4
	Public	--	--	277.9	--	--	135.0	--	--	--	--	--	--	--	--	1,220.1	1,220.1	1,220.1	1,220.1	1,220.1	1,220.1	1,220.1	1,220.1	1,220.1	1,220.1	1,220.1	1,220.1	1,220.1	1,220.1	1,220.1
	Total	--	--	4,439.3	--	--	2,169.4	--	--	--	--	--	--	--	--	7,828.8	7,828.8	7,828.8	7,828.8	7,828.8	7,828.8	7,828.8	7,828.8	7,828.8	7,828.8	7,828.8	7,828.8	7,828.8	7,828.8	7,828.8
Mississippi	Private	--	--	3,718.8	--	--	2,969.8	--	--	--	--	--	--	--	--	1,051.6	1,051.6	1,051.6	1,051.6	1,051.6	1,051.6	1,051.6	1,051.6	1,051.6	1,051.6	1,051.6	1,051.6	1,051.6	1,051.6	1,051.6
	Public	--	--	523.8	--	--	402.2	--	--	--	--	--	--	--	--	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8
	Total	--	--	4,242.6	--	--	3,372.0	--	--	--	--	--	--	--	--	1,950.0	1,950.0	1,950.0	1,950.0	1,950.0	1,950.0	1,950.0	1,950.0	1,950.0	1,950.0	1,950.0	1,950.0	1,950.0	1,950.0	1,950.0
North Carolina	Private	3,309.6	1,037.1	--	--	32.9	--	--	3,326.4	1,181.0	780.2	4.2	--	--	--	9,371.4	9,371.4	9,371.4	9,371.4	9,371.4	9,371.4	9,371.4	9,371.4	9,371.4	9,371.4	9,371.4	9,371.4	9,371.4	9,371.4	9,371.4
	Public	111.7	42.6	--	--	13.0	--	--	230.2	227.6	8.9	14.7	--	--	--	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7	648.7
	Total	3,121.3	1,079.7	--	--	45.9	--	--	3,556.6	1,408.6	789.1	18.9	--	--	--	10,020.1	10,020.1	10,020.1	10,020.1	10,020.1	10,020.1	10,020.1	10,020.1	10,020.1	10,020.1	10,020.1	10,020.1	10,020.1	10,020.1	10,020.1
Oklahoma	Private	--	--	675.6	--	--	568.2	--	--	--	--	--	--	--	--	1,243.8	1,243.8	1,243.8	1,243.8	1,243.8	1,243.8	1,243.8	1,243.8	1,243.8	1,243.8	1,243.8	1,243.8	1,243.8	1,243.8	1,243.8
	Public	--	--	119.7	--	--	96.1	--	--	--	--	--	--	--	--	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8
	Total	--	--	795.3	--	--	664.3	--	--	--	--	--	--	--	--	1,459.6	1,459.6	1,459.6	1,459.6	1,459.6	1,459.6	1,459.6	1,459.6	1,459.6	1,459.6	1,459.6	1,459.6	1,459.6	1,459.6	1,459.6
South Carolina	Private	2,588.9	772.9	--	--	4.6	--	--	1,970.8	344.7	151.7	--	--	--	--	5,833.6	5,833.6	5,833.6	5,833.6	5,833.6	5,833.6	5,833.6	5,833.6	5,833.6	5,833.6	5,833.6	5,833.6	5,833.6	5,833.6	5,833.6
	Public	327.6	101.2	--	--	4.6	--	--	1,154.0	40.7	10.9	--	--	--	--	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4
	Total	2,916.5	874.1	--	--	4.6	--	--	2,124.8	385.4	162.6	--	--	--	--	6,468.0	6,468.0	6,468.0	6,468.0	6,468.0	6,468.0	6,468.0	6,468.0	6,468.0	6,468.0	6,468.0	6,468.0	6,468.0	6,468.0	6,468.0
Tennessee	Private	--	--	847.8	--	--	998.7	--	--	--	--	--	--	--	--	1,846.5	1,846.5	1,846.5	1,846.5	1,846.5	1,846.5	1,846.5	1,846.5	1,846.5	1,846.5	1,846.5	1,846.5	1,846.5	1,846.5	1,846.5
	Public	--	--	151.0	--	--	199.3	--	--	--	--	--	--	--	--	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.3	350.3
	Total	--	--	998.8	--	--	1,198.0	--	--	--	--	--	--	--	--	2,196.8	2,196.8	2,196.8	2,196.8	2,196.8	2,196.8	2,196.8	2,196.8	2,196.8	2,196.8	2,196.8	2,196.8	2,196.8	2,196.8	2,196.8
Texas	Private	--	--	4,315.0	--	--	2,241.9	--	--	--	--	--	--	--	--	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9
	Public	--	--	593.7	--	--	64.2	--	--	--	--	--	--	--	--	668.5	668.5	668.5	668.5	668.5	668.5	668.5	668.5	668.5	668.5	668.5	668.5	668.5	668.5	668.5
	Total	--	--	4,908.7	--	--	2,306.1	--	--	--	--	--	--	--	--	3,38.5	3,38.5	3,38.5	3,38.5	3,38.5	3,38.5	3,38.5	3,38.5	3,38.5	3,38.5	3,38.5	3,38.5	3,38.5	3,38.5	3,38.5
Virginia	Private	1,077.6	323.8	--	--	52.4	--	--	2,326.8	2.6	1,174.4	19.9	--	--	--	4,947.3	4,947.3	4,947.3	4,947.3	4,947.3	4,947.3	4,947.3	4,947.3	4,947.3	4,947.3	4,947.3	4,947.3	4,947.3	4,947.3	4,947.3
	Public	38.3	15.2	--	--	31.2	--	--	210.5	--	71.3	12.9	--	--	--	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4	379.4
	Total	1,115.9	339.0	--	--	63.6	--	--	2,537.3	2.6	1,245.7	32.8	--	--	--	5,336.9	5,336.9	5,336.9	5,336.9	5,336.9	5,336.9	5,336.9	5,336.9	5,336.9	5,336.9	5,336.9	5,336.9	5,336.9	5,336.9	5,336.9
Total	Private	11,834.4	3,806.2	23,833.4	69.9	114.1	367.7	28,677.3	2,075.1	2,371.3	24.1	4,322.5	77,340.4	--	--	7,842.8	7,842.8	7,842.8	7,842.8	7,842.8	7,842.8	7,842.8	7,842.8	7,842.8	7,842.8	7,842.8	7,842.8	7,842.8	7,842.8	7,842.8
	Public	738.4	256.4	2,657.1	44.2	41.3	2,991.3	369.6	126.5	27.6	51.7	4,912.7	85,183.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

¹/ Data extracted from U.S. Forest Service Resource Bulletin published by the Southern & Southeastern Forest Experiment Stations.

2/ Forests in which 50% or more of the stocking is in shortleaf or other southern yellow pines singly or in combination.

Table 2.

SITUATION AND ACCOMPLISHMENT 1972 - 1974 (1st Half)

State	Ownership	FY 1972				FY 1973				FY 1974 (1st Half)			
		Gross Outbreak Area	Federal Funds Expended	Infested Volume	Cross Outbreak Area	Federal Funds Expended	Infested Volume	Gross Outbreak Area	Federal Funds Received	Volume Salvaged	Gross Outbreak Area	Federal Funds Received	
		\$		MCF		\$	MCF	Half 1974	MCF	1 /	MCF		
Alabama	Private	---	---	---	15,000,000	500,000	66,722	20,377	15,000,000	500,000	14,925	6,911	
	Federal	203,000	13,293	804	500,000	180,064	6,194	502	1,270,240	73,428	1,730	107	
	Total	203,000	13,293	804	15,500,000	680,064	72,916	20,839	16,270,240	573,428	16,655	7,018	
Arkansas	Private	---	---	---	645,000	22,952	879	188	1,336,000	21,285	1,97	85	
	Federal	---	---	---	645,000	22,952	879	188	1,336,000	21,285	1,97	85	
	Total	---	---	---	645,000	22,952	879	188	1,336,000	21,285	1,97	85	
Georgia	Private	2,000,000	988	290	9,200,000	38,000	3,920	2,717	9,018,130	96,000	15,212	8,255	
	Federal	296,690	10,960	4,767	700,000	51,396	6,431	628	1,336,132	50,124	2,173	187	
	Total	2,296,690	11,948	5,057	9,900,000	89,396	10,351	3,345	10,354,262	146,124	17,385	8,442	
Louisiana	Private	4,000,000	26,000	16,000	450	7,500,000	285,000	17,826	2,668	6,800,000	100,000	979	157
	Federal	561,000	60,630	6,550	600,000	59,894	2,742	411	1,017,287	44,000	569	117	
	Total	4,561,000	86,630	22,550	450	8,100,000	344,894	20,568	3,079	7,817,287	144,000	1,548	174
Mississippi	Private	---	---	---	1,600,000	44,960	240	518	1,652,600	67,422	212	229	
	Federal	188,615	17,168	3,000	200,000	50,034	2,513	10	373,497	36,618	1,954	---	
	Total	188,615	17,168	3,000	1,800,000	94,994	2,753	528	2,026,097	104,040	2,166	229	
North Carolina	Private	4,327,717	9,579	21,025	---	6,700,000	62,841	20,143	2,351	13,500,000	20,235	17,760	2,577
	Federal	631,220	21,110	900	600,000	41,448	2,012	110	2,752,430	29,000	789	284	
	Total	4,958,937	30,689	21,925	---	7,300,000	104,289	22,155	2,461	16,252,430	49,235	18,549	2,861
South Carolina	Private	514,000	---	---	113	3,600,000	---	544	558	3,900,000	32,500	4,325	6,427
	Federal	481,479	22,070	2,767	---	1,300,000	55,183	2,902	814	1,474,444	20,250	1,479	209
	Total	995,479	22,070	2,767	113	4,900,000	55,183	3,446	1,372	5,249,444	52,750	5,804	6,636
Tennessee	Private	---	---	---	---	---	---	---	1,714,984	---	---	9	
	Federal	50,000	15,700	579	---	80,000	22,350	341	69	338,136	13,700	112	48
	Total	50,000	15,700	579	---	80,000	22,350	341	69	2,053,120	13,700	112	57
Texas	Private	6,200,000	45,000	2,000	---	8,000,000	165,000	28,000	811	8,000,000	35,000	3,884	126
	Federal	80,000	4,800	300	---	700,000	56,924	4,847	185	1,716,967	52,200	8,361	338
	Total	6,280,000	49,800	2,300	---	8,700,000	221,924	32,847	996	9,716,967	87,200	12,245	464
Virginia	Private	---	---	---	4,600,000	---	6,000	2,700	6,889,600	4,750	5,852	2,340	
	Federal	---	---	---	71,485	9,460	180	497	3,689	8,910	2,370	373	
	Total	---	---	---	4,671,485	9,460	6,180	3,197	6,963,289	13,660	8,222	2,713	
SA TOTALS	Private	17,041,717	\$ 31,567	39,315	563	56,845,000	\$1,118,753	144,274	32,848	67,686,314	877,192	63,346	27,116
	Federal	2,492,004	\$ 165,731	19,667	---	4,751,485	\$ 526,753	28,162	3,226	10,352,822	328,230	19,537	1,563
	Total	19,533,721	\$ 247,298	58,982	563	61,596,485	\$1,645,506	172,436	36,074	78,039,136	1,205,422	82,883	28,679

1 / Acreage summarized on a county basis; see Table 4.

Table 3.

OUTLOOK FOR SOUTHERN PINE BEETLE SITUATION IN SOUTHEASTERN AREA FOR SECOND HALF FY 1974

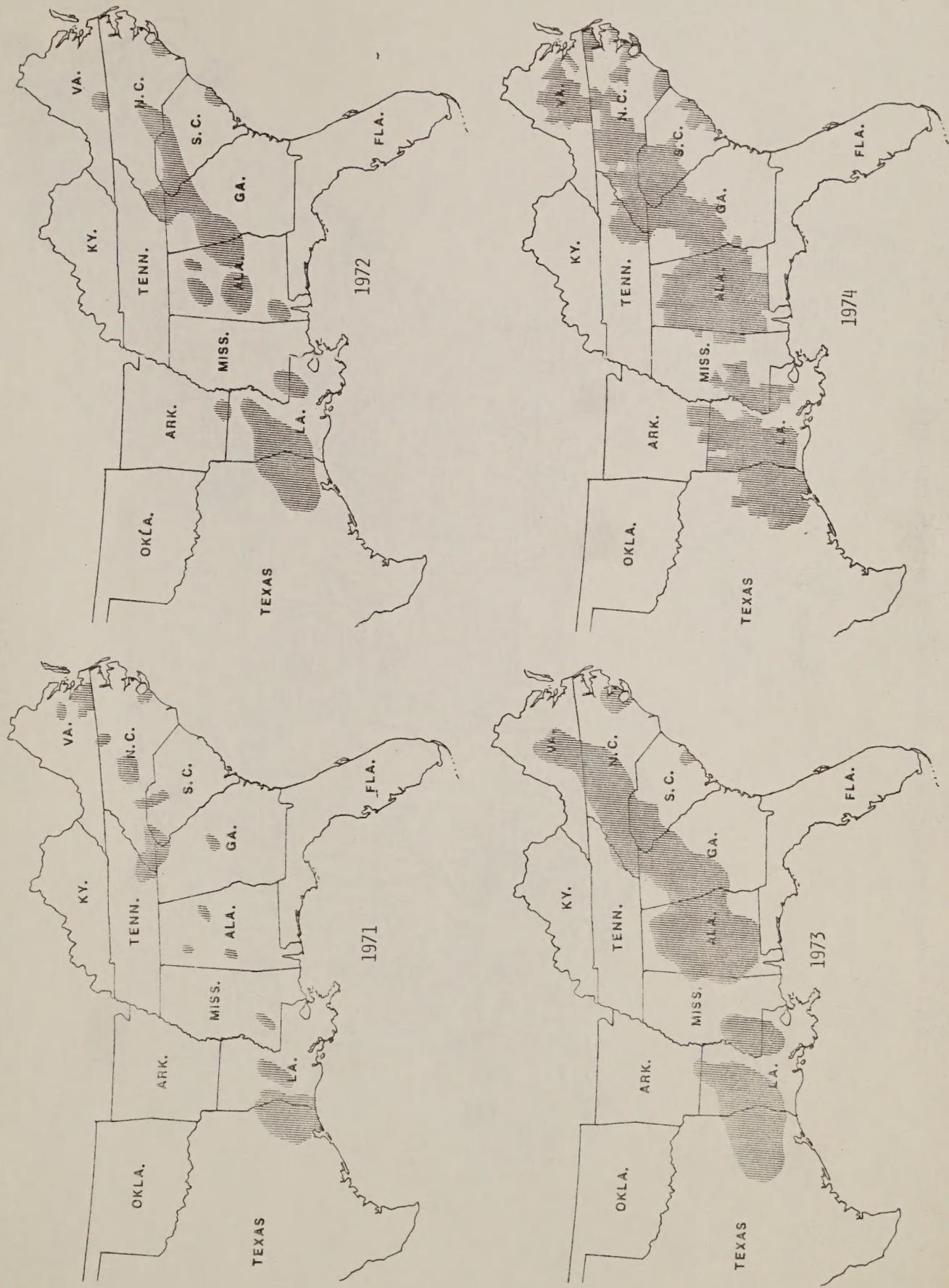
State	Ownership	Federal Funds Requested for 2nd Half F.Y. 1974	Anticipated Infested Timber to be Salvaged 2nd Half F.Y. 1974 MBF <u>MCF</u>	Net Acreage of Host Type in State	Net Acreage of Host Type in Current Outbreak	Current Status and Course of Outbreak (January 1, 1974)
Alabama	Private Federal Total	\$ 477,988 73,427 551,415	46,860 2,270 49,130	219 14,271,400	11,161,000	Declining in coastal portions of state and continuing at a severe level in North and South Alabama.
Arkansas	Private Federal Total	\$ 16,284 --- 16,284	239 --- 239	7 --- 7	6,707,600	Outbreak decreasing in Ashley County and increasing in western part of Union County.
Georgia	Private Federal Total	\$ 63,200 27,501 90,701	12,538 2,173 14,711	4,987 187 5,174	11,054,800	Beetle populations are high and continued tree mortality is expected during FY 1974. Most severe outbreak is still in northeast Georgia.
Louisiana	Private Federal Total	\$ 70,000 34,100 104,100	5,021 5,581 5,602	368 34 402	7,828,800	The extent of the outbreak is no longer increasing and the number of infestations has decreased.
Mississippi	Private Federal Total	\$ 31,211 36,618 67,829	1,788 1,846 3,634	696 --- 696	8,950,000	Outbreak slightly increasing in area.
North Carolina	Private Federal Total	\$ 20,236 31,000 51,236	16,240 17,029 17,029	2,576 284 2,860	10,020,100	The outbreak is increasing in area and intensity. Mild winter weather has increased the potential for expending beetle populations during 1974.
South Carolina	Private Federal Total	\$ 32,500 22,250 54,750	2,675 1,479 4,154	6,573 209 6,782	6,468,000	Outbreak for coastal counties through spring 1974 is good due to intensified suppression efforts. Outbreak is still severe in most Piedmont counties and is expected to intensify in 1974.
Tennessee	Private Federal Total	\$ --- 35,468 35,468	500 112 612	74 48 122	2,196,800	Populations increasing to a rapid rate in eastern Tennessee. The outbreak is expected to be severe in 1974.
Texas	Private Federal Total	\$ 150,000 44,760 194,760	8,516 9,089 17,605	987 616 1,603	7,573,300	Outbreak increasing slightly in western and northwestern portion of outbreak area and decreasing slightly in southeastern portion.
Virginia	Private Federal Total	\$ 4,750 7,000 11,750	5,852 2,370 8,222	2,340 374 2,714	5,336,900	Outbreak increasing in severity in five southern counties; static over the rest of the 1973 outbreak area.
SA TOTALS	Private Federal Total	\$ 866,169 312,124 \$1,178,293	100,229 20,709 120,938	18,608 1,971 20,579	2,448,645 80,407,700	49,826,883

Table 4. Status of the southern pine beetle outbreak on a county basis, January 1974^{1/}

State	No. of Counties In Current Out- break Area	No. of Counties Having Suscep- tible Host Type	Total No. of Counties in State
Alabama	53	66	67
Arkansas	2	47	75
Georgia	56	158	159
Louisiana	31	38	64
Mississippi	18	69	82
North Carolina	71	100	100
South Carolina	22	46	46
Tennessee	13	55	95
Texas	22	44	254 (63 - East Texas)
Virginia	<u>27</u>	<u>87</u>	<u>98</u>
SA Total	315	710	1,040

^{1/} Status maps and the gross outbreak area have been compiled for each state on a county basis primarily from information supplied by the forestry organizations of the respective states. Gross outbreak area is the total area within the counties with southern pine beetle infestations. The acreage of susceptible pine type within the outbreak area was compiled on a county basis from forest survey data provided by the Southern and Southeastern Forest Experiment Stations, U.S. Forest Service.

FIGURE 1 CHRONOLOGICAL DEVELOPMENT OF THE SOUTHERN PINE BEETLE OUTBREAK FY 1971 - FY 1974



SOUTHERN COUNTIES

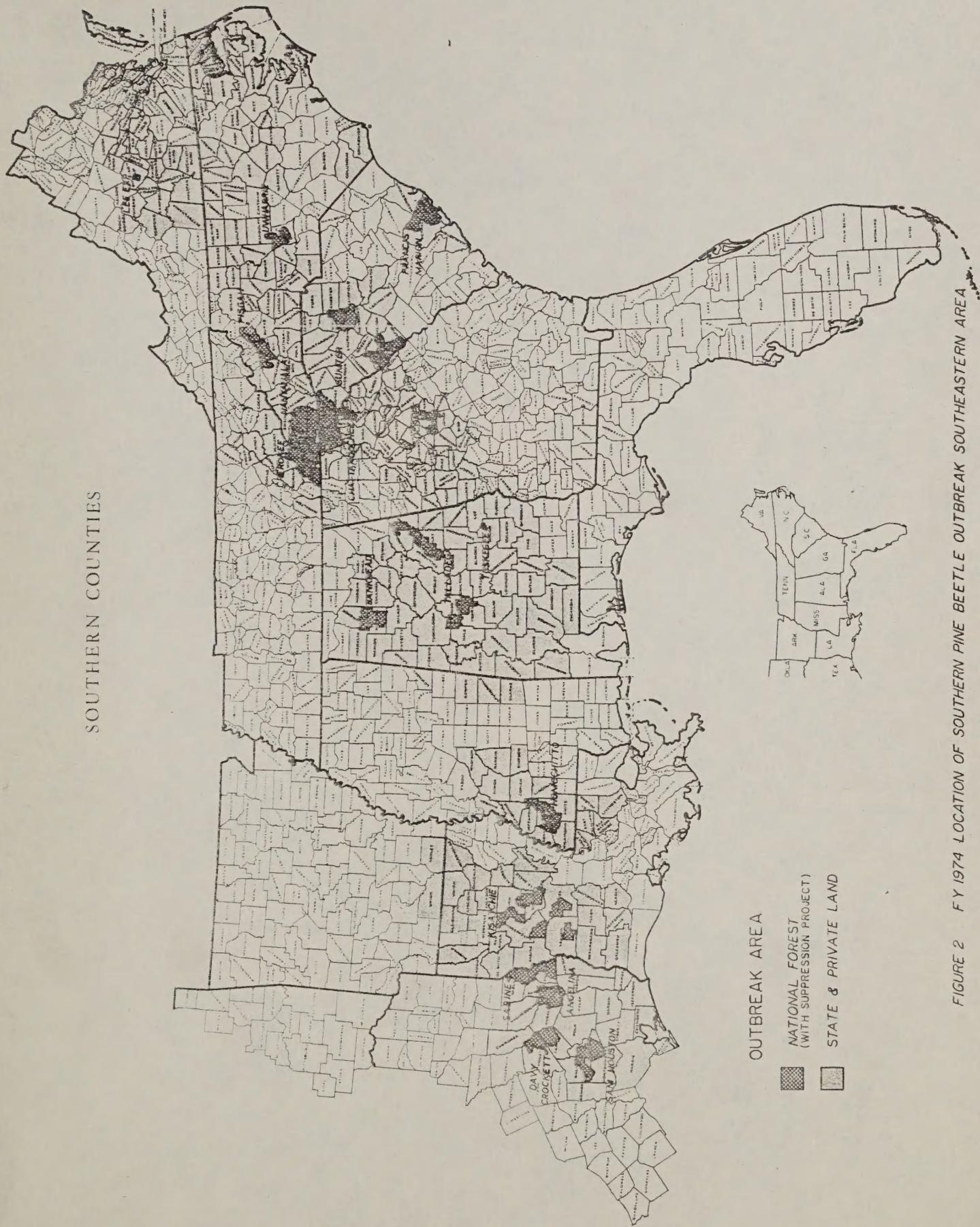


FIGURE 2 FY 1974 LOCATION OF SOUTHERN PINE BEETLE OUTBREAK SOUTHEASTERN AREA

